

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532079

Luminaire Tested: **GALN-SA7B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18383 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



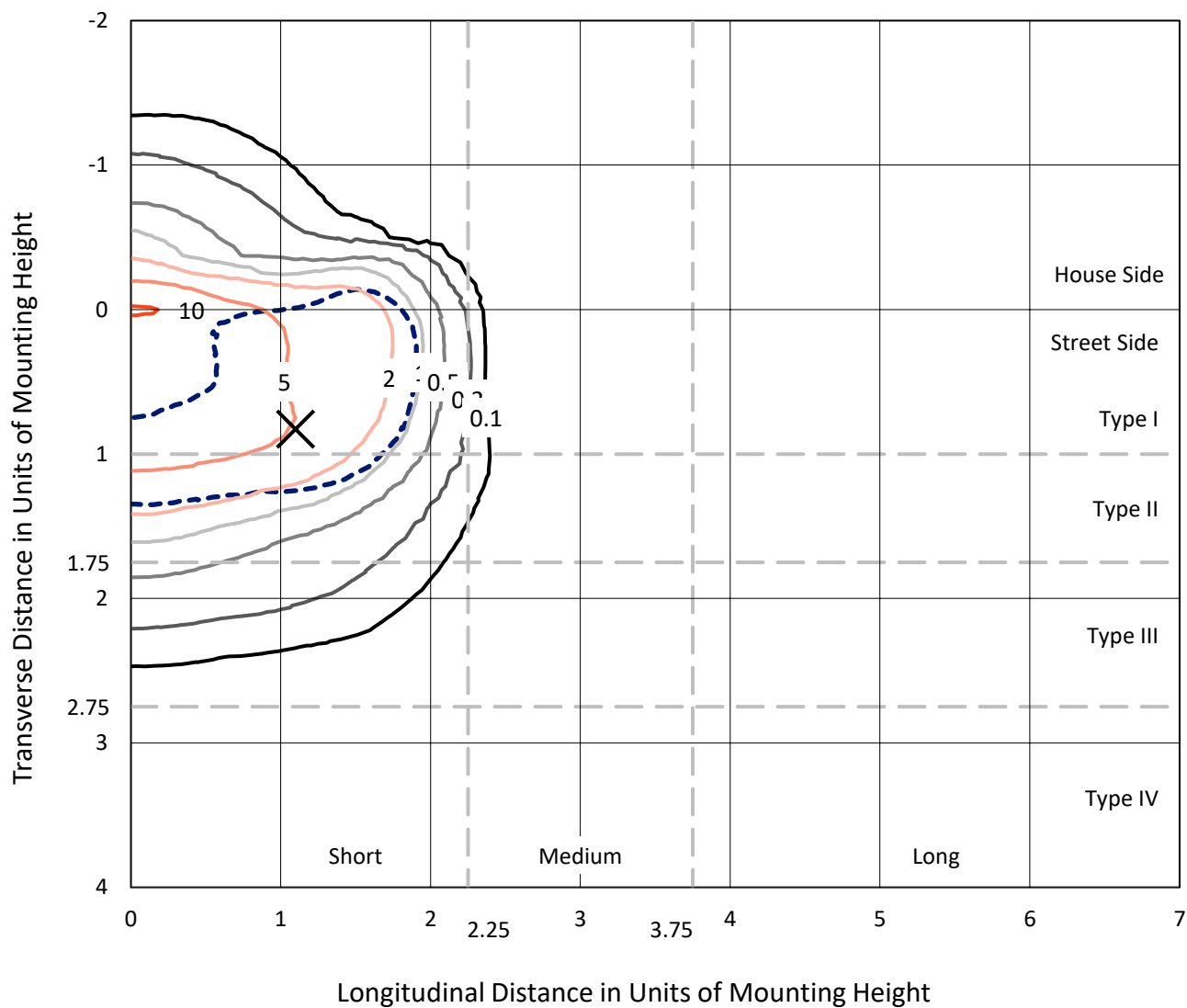
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

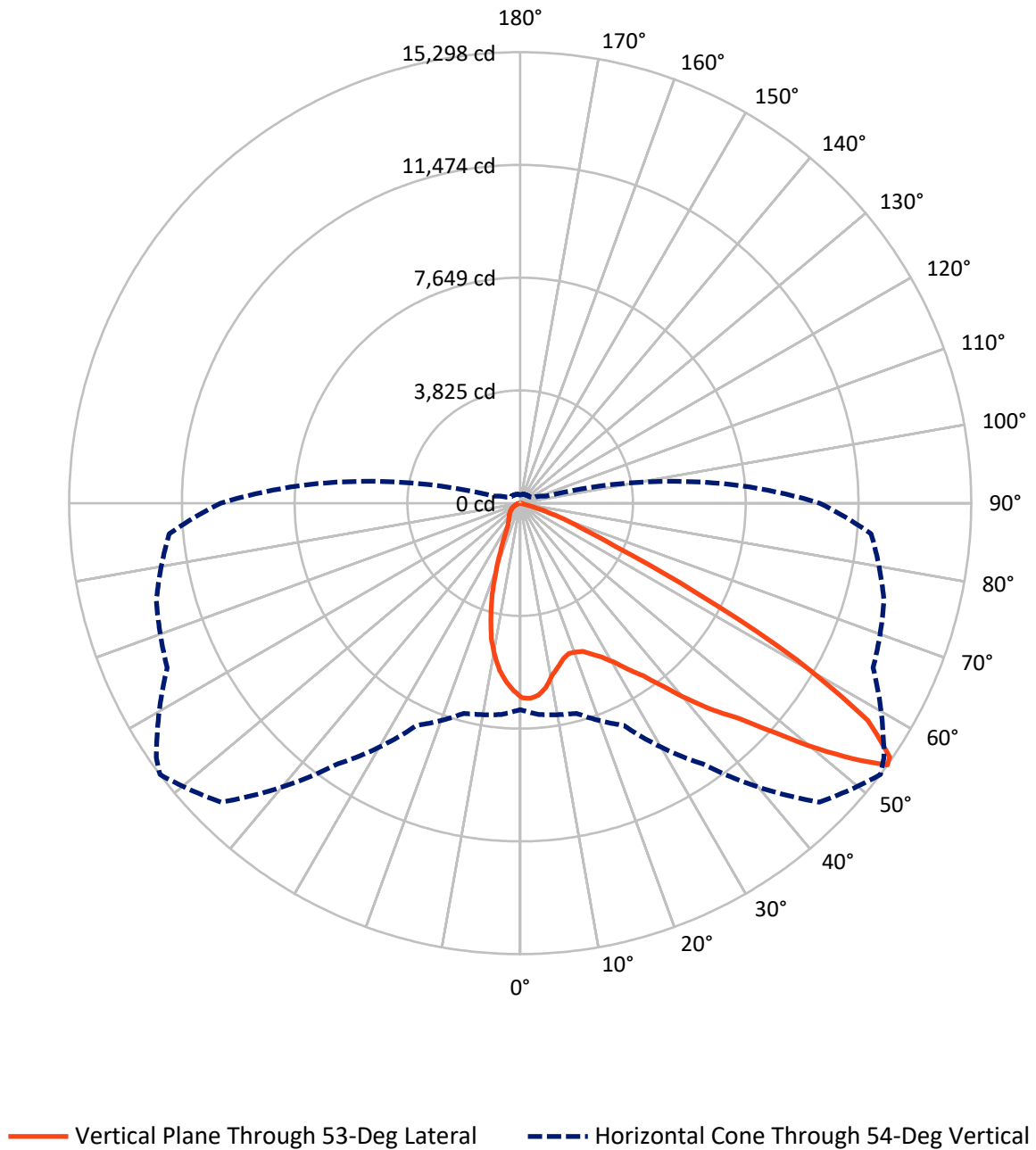


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3041.5	0.0	3041.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15341.5	0.0	15341.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	18383.0	0.0	18383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.5	3.1
10°-20°	1298.8	7.1
20°-30°	1845.9	10.0
30°-40°	2848.7	15.5
40°-50°	4466.5	24.3
50°-60°	5188.5	28.2
60°-70°	1960.5	10.7
70°-80°	186.4	1.0
80°-90°	21.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18383.0	100.0
0°-180°	18383.0	100.0

Coefficient of Utilization



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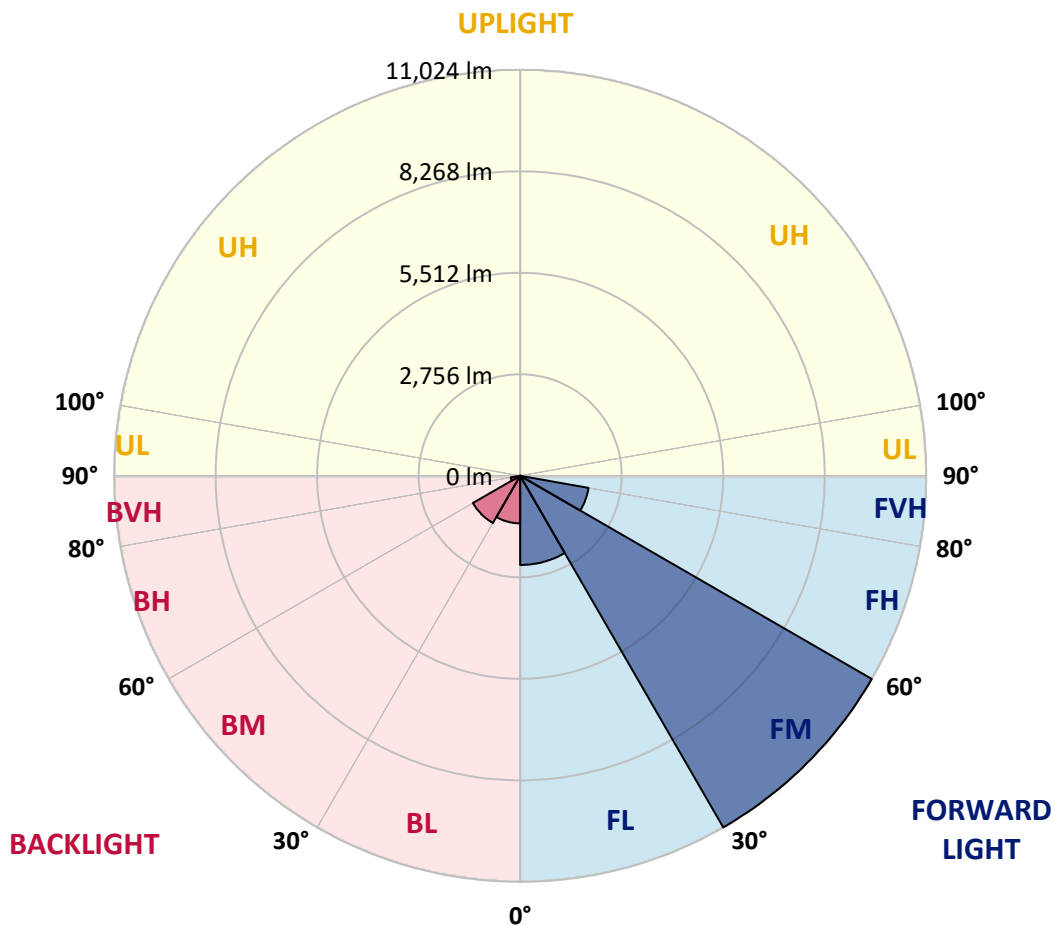
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2420.6	13.2			
FM	(30°-60°)	11023.7	60.0			
FH	(60°-80°)	1886.4	10.3			G2/5000
FVH	(80°-90°)	10.8	0.1			G1/100
BL	(0°-30°)	1290.7	7.0	B3/2500		
BM	(30°-60°)	1480.1	8.1	B2/2500		
BH	(60°-80°)	260.6	1.4	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9
2.5°	6568.6	6510.4	6568.6	6575.5	6616.6	6654.2	6630.3	6685.1	6654.2	6620.0	6609.7
5°	6037.8	6116.6	6120.0	6243.3	6215.9	6441.9	6541.2	6513.8	6681.6	6671.4	6647.4
7.5°	5561.7	5530.9	5572.0	5715.9	5897.4	6157.6	6301.5	6298.1	6537.8	6709.0	6691.9
10°	5120.0	5116.5	5202.2	5315.2	5469.3	5743.3	5941.9	6041.2	6414.5	6674.8	6712.5
12.5°	4822.0	4808.3	4900.8	4993.2	5236.4	5448.7	5702.2	5750.1	6178.2	6554.9	6616.6
15°	4626.8	4657.6	4664.5	4842.6	4996.7	5277.5	5476.1	5575.4	6068.6	6459.0	6695.3
17.5°	4592.6	4633.6	4637.1	4784.3	4948.7	5185.0	5359.7	5493.3	5976.1	6507.0	6698.8
20°	4661.0	4637.1	4657.6	4750.1	4911.1	5137.1	5390.5	5435.0	5945.3	6530.9	6736.4
22.5°	4856.3	4849.4	4798.0	4873.4	4986.4	5222.7	5462.4	5530.9	6034.4	6654.2	6767.3
25°	5072.0	5109.7	5061.7	5051.5	5130.2	5363.1	5681.6	5770.7	6332.3	6876.8	6863.1
27.5°	5476.1	5438.5	5438.5	5390.5	5370.0	5483.0	5917.9	6065.2	6664.5	7164.5	6972.7
30°	5863.1	5904.2	5873.4	5890.5	5753.5	5743.3	6253.5	6435.1	7253.6	7602.9	7205.6
32.5°	6476.1	6421.4	6472.7	6428.2	6246.7	6061.8	6709.0	6897.4	7965.9	8106.3	7554.9
35°	6986.4	6962.5	7181.6	7174.8	6880.3	6698.8	7191.9	7472.7	8462.5	8709.1	7965.9
37.5°	7712.5	7668.0	7918.0	8037.8	7774.1	7503.6	7883.7	8209.1	8924.8	9192.0	8387.1
40°	8459.1	8572.1	8907.7	9106.3	8825.5	8465.9	8729.6	8828.9	9233.1	9507.0	8674.8
42.5°	9404.3	9568.7	9911.1	10082.4	10058.4	9668.0	9589.2	9585.8	9455.7	9418.0	8887.2
45°	10311.8	10250.2	10777.6	11150.9	11452.3	11339.3	10418.0	10315.3	9808.4	9551.5	8941.9
47.5°	10709.1	10688.6	11048.2	11712.5	12740.0	12880.4	11623.5	11226.2	10404.3	10113.2	9239.9
50°	10195.4	10301.6	10657.7	11394.0	12969.4	14041.4	13103.0	12568.7	11099.5	10798.1	9945.4
52.5°	8517.3	8589.2	8928.2	9863.2	12188.6	14726.3	14520.8	14212.6	12376.9	11876.9	11174.9
54°	7003.6	7195.3	7380.3	8318.6	10798.1	14346.2	15298.2	15061.9	13209.2	12774.2	11948.9
55°	6099.4	6212.4	6346.0	7281.0	9835.8	13702.3	15209.2	15229.7	13767.4	13055.0	12469.4
57.5°	4455.6	4534.3	4397.3	4811.7	6753.6	11126.9	13911.2	14466.0	14520.8	13476.3	12787.9
60°	3404.2	3438.4	3284.3	3349.4	4198.7	7637.1	10760.5	11428.3	13099.6	11777.6	10832.4
62.5°	2640.5	2647.3	2643.9	2756.9	2893.9	4493.2	6729.6	7322.1	9031.0	8363.2	7356.3
65°	1945.2	1914.4	1969.2	2311.7	2469.2	2825.4	3544.6	3976.1	4907.6	4143.9	2962.4
67.5°	1260.3	1270.6	1325.4	1719.2	2116.5	2167.8	2181.5	2147.3	2150.7	1185.0	743.2
70°	756.9	774.0	756.9	972.6	1513.7	1554.8	1421.3	1387.0	1082.2	280.8	277.4
72.5°	448.6	424.7	380.1	417.8	630.1	753.4	678.1	674.7	424.7	164.4	164.4
75°	188.4	171.2	140.4	126.7	167.8	161.0	161.0	143.8	113.0	109.6	102.7
77.5°	37.7	37.7	27.4	30.8	41.1	47.9	58.2	58.2	68.5	68.5	65.1
80°	0.0	3.4	10.3	20.5	30.8	44.5	51.4	51.4	58.2	58.2	47.9
82.5°	0.0	3.4	10.3	20.5	27.4	41.1	51.4	51.4	58.2	61.6	51.4
85°	0.0	3.4	10.3	17.1	27.4	34.2	34.2	30.8	24.0	20.5	13.7
87.5°	0.0	0.0	3.4	6.8	3.4	6.8	6.8	6.8	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9	6602.9
2.5°	6633.7	6630.3	6548.1	6414.5	6383.7	6270.7	6257.0	6188.5	6226.1	6099.4	6085.7
5°	6578.9	6537.8	6438.5	6352.9	6102.9	5924.8	5784.4	5613.1	5513.8	5530.9	5465.9
7.5°	6657.7	6551.5	6376.8	6078.9	5774.1	5462.4	5294.6	4945.3	4818.6	4630.2	4602.8
10°	6575.5	6496.7	6226.1	5733.0	5311.7	4863.1	4469.3	4082.3	3787.7	3661.0	3633.6
12.5°	6568.6	6431.6	5979.6	5431.6	4822.0	4178.2	3606.2	3123.3	2832.2	2667.9	2630.2
15°	6462.5	6298.1	5702.2	4965.8	4123.4	3322.0	2698.7	2232.9	2010.3	1914.4	1941.8
17.5°	6472.7	6226.1	5424.8	4472.7	3435.0	2438.4	1842.5	1602.8	1544.5	1568.5	1568.5
20°	6462.5	6065.2	5089.1	3904.2	2630.2	1691.8	1352.8	1267.1	1304.8	1380.2	1363.0
22.5°	6407.7	5989.8	4780.9	3304.9	1935.0	1253.4	1085.6	1089.1	1147.3	1239.7	1260.3
25°	6448.8	5822.0	4390.5	2698.7	1411.0	1000.0	941.8	965.8	1027.4	1095.9	1109.6
27.5°	6417.9	5702.2	3983.0	2095.9	1030.8	859.6	856.2	883.6	911.0	962.3	962.3
30°	6452.2	5592.6	3582.3	1558.2	849.3	787.7	774.0	794.5	821.9	832.2	828.8
32.5°	6578.9	5510.4	3119.9	1164.4	750.0	719.2	719.2	719.2	715.8	729.5	732.9
35°	6856.3	5524.1	2712.4	900.7	684.9	661.0	650.7	637.0	630.1	637.0	640.4
37.5°	7157.7	5517.2	2291.1	767.1	637.0	616.4	592.5	571.9	568.5	575.4	565.1
40°	7291.2	5582.3	1900.7	688.4	592.5	568.5	530.8	513.7	517.1	524.0	517.1
42.5°	7472.7	5602.8	1647.3	626.7	551.4	513.7	489.7	469.2	465.8	476.0	472.6
45°	7469.3	5486.4	1380.2	592.5	513.7	472.6	441.8	424.7	424.7	431.5	434.9
47.5°	7688.5	5469.3	1185.0	561.7	486.3	445.2	407.5	393.8	390.4	390.4	383.6
50°	8198.8	5709.0	1034.3	527.4	452.1	414.4	383.6	366.4	352.7	345.9	342.5
52.5°	9195.4	6455.6	917.8	486.3	414.4	383.6	356.2	342.5	325.3	308.2	304.8
54°	10161.1	7226.2	911.0	452.1	383.6	363.0	339.0	332.2	311.6	287.7	280.8
55°	10596.1	7674.8	934.9	424.7	363.0	349.3	328.8	321.9	301.4	274.0	270.6
57.5°	10955.7	7849.5	921.3	352.7	328.8	325.3	308.2	298.0	274.0	236.3	229.5
60°	8818.7	5935.0	661.0	311.6	301.4	294.5	280.8	274.0	243.2	202.1	198.6
62.5°	5572.0	3414.4	421.2	274.0	263.7	253.4	236.3	229.5	202.1	161.0	150.7
65°	2373.3	1414.4	284.3	243.2	226.0	208.9	195.2	184.9	161.0	119.9	116.4
67.5°	616.4	503.4	236.3	212.3	188.4	164.4	154.1	137.0	109.6	82.2	78.8
70°	277.4	253.4	198.6	178.1	150.7	126.7	113.0	95.9	71.9	54.8	51.4
72.5°	164.4	161.0	150.7	133.6	113.0	95.9	82.2	65.1	47.9	30.8	30.8
75°	102.7	99.3	102.7	92.5	78.8	71.9	61.6	44.5	27.4	13.7	13.7
77.5°	61.6	61.6	61.6	58.2	54.8	54.8	44.5	27.4	13.7	3.4	3.4
80°	47.9	47.9	51.4	47.9	47.9	47.9	37.7	20.5	6.8	0.0	0.0
82.5°	47.9	51.4	58.2	54.8	47.9	41.1	34.2	20.5	6.8	0.0	0.0
85°	13.7	10.3	17.1	24.0	34.2	30.8	24.0	17.1	6.8	0.0	0.0
87.5°	6.8	6.8	6.8	6.8	3.4	3.4	3.4	3.4	3.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)